

ABSTRACT

- A distance measuring system includes a housing with at least one surface, at least one switch along the one surface of the housing, an energy system in the housing, and a distance computation system coupled to the energy system. The
- 5 switch has an inactivated position and an activated position when pressed against an origination object. The activated position of the switch identifies the surface as a reference plane with respect to the origination object. The energy system transmits energy towards a target when the switch is in an activated position and receives at least a portion of the energy which is reflected back from the target.
- 10 The distance computation system uses the received portion of the energy which is reflected back and the identification of the surface as the reference plane to determine a distance from the origination object to the target.